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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,105	02/06/2004	Thomas M. DiMauro	D0601-700519	9012
27777 PHILIP S. JO	7590 02/05/2009 HNSON		EXAM	INER
JOHNSON & JOHNSON			STEPHENS, JACQUELINE F	
ONE JOHNSON & JOHNSON PLAZA NEW BRUNSWICK, NJ 08933-7003		ART UNIT	PAPER NUMBER	
THE PROPERTY			3761	
			MAIL DATE	DELIVERY MODE
			02/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/774,105	DIMAURO ET AL.	
Examiner	Art Unit	
Jacqueline F. Stephens	3761	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status		
1)🛛	Responsive to communication(s) fi	led on <u>09 May 2007</u> .
2a)⊠	This action is FINAL.	2b)⊠ This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	

Disposition of Claims

4)⊠	Claim(s) 111,119 and 120 is/are pending in the application.
4	a) Of the above claim(s) is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)🛛	Claim(s) <u>111,119 and 120</u> is/are rejected.
7)	Claim(s) is/are objected to.
8)□	Claim(s) are subject to restriction and/or election requirement.
Application	on Papers
9)□ ™	The specification is objected to by the Examiner.

a) ☐ All b) ☐ Some * c) ☐ None of:

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Notice of Informal Patent Application (FTC-152) 6) Other: Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/22/08 has been entered.

Response to Arguments

Applicant's arguments with respect to claims 111, and 119-120 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

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Patentability shall not be negatived by the manner in which the invention was made.

- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 111, 119, and 120 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gray et al. US 2002/0173769 in view of Kubota et al. US 20030125679 and further in view of Morikawa et al. USPN 6743749

Gray discloses an infusion set comprising a needle housing 22 having a proximal port, a distal port and a base surface; a mounting pad (paragraph 0071) coupled to the base surface of the needle housing and having a transverse hole; and a transcutaneous cannula 16 having a proximal end connected to the distal port of the needle housing and a distal end that is adapted to be fed through the transverse hole (paragraph 0071). Gray does not disclose the transcutaneous cannula comprises a tube having an outer

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wall and an inner wall, and an outer photocatalytic layer attached to the outer wall of the tube.

Kubota describes an implant including a photocatalytic unit. Kubota teaches titanium oxide as a photocatalyst layer and teaches the tube exhibits excellent antibacterial acitivity due to the photocatalyst layer(Abstract). It would have been obvious to one having ordinary skill in the art to modify the tube of Gray with a photocatalytic layer for the benefit of providing antibacterial qualities to the tube as taught in Kubota. and where the photocatalytic layer is porous (paragraph 008) has a UV transmissive material (paragraph 0011). Kubota teaches the thickness of the oxidized layer of up to 10 μm (paragraph 0015). Kuboto discloses a base material 13, wave guide 32 made of silicone, and photocatalytic layer 16 comprising semiconductor oxide and further containing silver ions (paragraph 0068).

Gray/Kubota disclose the present invention substantially as claimed. However, Gray/Kubota does not disclose the outer surface of the titania is doped with nitrogen. Morikawa discloses providing environmentally compatible reaction products using nitrogen doped titanium oxide for the benefit of providing a phtocatalytic function when exposed to light in the ultraviolet range and in the visible range (col. 2, lines 1-9). It would have been obvious to one having ordinary skill in the art to use nitrogen compositions in the invention of Gray/Kubota for the benefits taught in Morikawa.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline F. Stephens whose telephone number is (571) 272-4937. The examiner can normally be reached on Monday-Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tanya Zalukaeva can be reached on (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacqueline F Stephens/ Primary Examiner, Art Unit 3761